

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Navigation lights

with type designation(s)
Series 40, 41, 70M, 70

Issued to

Glamox (Suzhou) Lighting Co., Ltd.
Suzhou 100, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
item No. MED/6.1. COLREG 72 as amended, Annex I/14, IMO Res. A.694(17), IMO Res.
MSC.253(83)

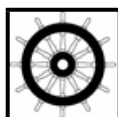
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2018-08-11.**

Issued at **Hamburg** on **2018-03-23**

DNV GL local station:
Shanghai

Approval Engineer:
Didier Girardin



Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudzus
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Product description

Navigation Lights LED-Series 40, 41, 70M, 70

Navigation lights of the Serie 40			
1	SSb 40	Starboard light, green, 112, 5°	2 nm
2	SBb 40	Port light, red, 112.5 °	2 nm
3	TD 40	Bicolour sidelight, red, green, 225°	2 nm
4	T 40	Masthead light, white, 225°	3 nm
5	H 40	Sternlight, white, 135°	2 nm
6	HGe 40	Sternlight, yellow, 135°	2 nm
7	T 40/ SW 40	Combined masthead light, white, 225° / all-round light, white, 360°	2 nm
8	SW 40	All-round light, white, 360°	2 nm
9	SR 40	All-round light, red, 360°	2 nm
10	SG 40	All-round light, green, 360°	2 nm
11	TDH 40	Combined sternlight and sidelight, red, white, green, 360°	2 nm
12	TDH 40 / SW 40	Combined sternlight and sidelight, red, white, green, 360° / all-round light, white, 360°	2 nm
13	40	Flashing light, white, 360°	
14	40D	Flashing light, white, 360°, and light supplementing sound signals, yellow, 360°	
15	SB40	All-round light, blue	
16	SGe 40	All-round light, yellow	

Navigation lights of the Serie 41			
1	SSb 41	Starboard light, green, 112, 5°	2 nm
2	SBb 41	Port light, red, 112.5°	2 nm
3	TD 41	Bicolour sidelight, red, green, 225°	2 nm
4	T 41	Masthead light, white, 225°	3 nm
5	H 41	Sternlight, white, 135°	2 nm
6	HGe 41	Sternlight, yellow, 135°	2 nm

Navigation lights of the Serie 70 M			
1	SSb 70 M	Starboard light, green, 112, 5°	3 nm
2	SBb 70 M	Port light, red, 112.5 °	3 nm
3	H 70 M	Sternlight, white, 135°	3 nm
4	HGe 70 M	Sternlight, yellow, 135°	3 nm
5	T 70 M	Masthead light, white, 225	6 nm
6	SW 70 M	All-round light, white, 360°	3 nm
7	SR 70 M	All-round light, red, 360°	3 nm
8	SG 70 M	All-round light, green, 360°	3 nm
9	SGe 70 M	All-round light, yellow, 360°	3 nm
10	SW / SR 70 M	All-round light, white / red 360°	3 nm
11	SR / SW 70 M	All-round light, red / white 360°	3 nm
12	SR / SG 70 M	All-round light, red / green 360°	3 nm
13	SG/ SR 70 M	All-round light, green / red 360°	3 nm
14	SW 70 M	All-round light, white, (2=360°)	3 nm
15	SR 70 M	All-round light, red, (2=360°)	3 nm
16	SG 70 M	All-round light, green, (2=360°)	3 nm
17	SGe 70 M	All-round light, yellow, (2=360°)	3 nm
18	SW / SG 70 M	All-round light, white / green, 360°	3 nm
19	SG / SW 70 M	All-round light, green / white, 360°	3 nm

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Navigation lights of the Serie 70			
1	SSb 70	Starboard light, green, 112, 5°	3 nm
2	SBb 70	Port light, red, 112.5 °	3 nm
3	H 70	Sternlight, white, 135°	3 nm
4	HGe 70	Sternlight, yellow, 135°	3 nm
5	T 70	Masthead light, white, 225	6 nm
6	SW 70	All-round light, white, 360°	3 nm
7	SR 70	All-round light, red, 360°	3 nm
8	SG 70	All-round light, green, 360°	3 nm
9	SGe 70	All-round light, yellow, 360°	3 nm
10	SW 70	Manoeuvre signalling light, white, 360°	5 nm
11	MS 70	Morse signal light, white, 360°	3 nm
12	SW 70	All-round light, white, (2=360°)	3 nm
13	SR 70	All-round light, red, (2=360°)	3 nm
14	SG 70	All-round light, green, (2=360°)	3 nm
15	SGe 70	All-round light, yellow, (2=360°)	3 nm

Application/Limitation

Series 40, 41: Electric navigation lights according to COLREG with the above ranges of visibility suitable for 12V and 24 V operation.

Series 70, 70M: Electric navigation lights according to COLREG with the above ranges of visibility suitable for 24V, 115 V, 120 V and 230 V operation.

The Series 70 and 70M sidelights may only be operated on board with installed screens based on the mounting instructions of the manufacturer.

Each product is to be supplied with its manual for installation, maintenance and use.

Type Examination documentation

See Annex

Tests carried out

- EN 14744 (2005 - including AC 2006)
- IEC 60945 Ed. 4.0, 2002 incl. Corr.1, 2008
- COLREG 72, Annex I/14
- MSC.253(83)

Marking of product

According to Article 10 of the Council Directive (MED) and including information required by the LSA Code § 1.2.2.9 and § 1.2.3

- Manufacturer name
- Type identification
- Serial number

Place of production

Glamox (Suzhou) Lighting Co., Ltd.
228, Tong Yuan Road Suzhou Industrial Park
Suzhou
215006 100
China



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Annex
Hidden



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